

What is claimed is:

1. A system for coordinating the activities of one or more computers, comprising:
a reload register adapted to transmit a reload value;
a mission timer adapted to generate timer count values and to selectively

5 generate an interrupt signal based upon said reload value transmitted from said reload
register;

a first timer capture register adapted to capture a first timer count value when a
first PPS signal is received; and

software adapted to generate said reload value based upon said first timer
count value.

2. The system as recited in claim 1, further comprising a second timer capture
register adapted to capture a second timer count value when a second PPS signal is received
and wherein said software is adapted to generate a consensus PPS value based upon said first
timer count value and said second timer count value and to generate said reload value based
15 upon said consensus PPS value.

3. The system as recited in claim 1, wherein said first PPS signal is generated by
a local PPS signal generator.

20 4. A method for coordinating the activities of one or computers, comprising:
capturing a timer count value with a timer capture register when a PPS signal
is received;

generating a reload value based upon the captured timer count value; and
generating an interrupt signal based upon the reload value.

5. A method for coordinating the activities of one or computers, comprising:

5 capturing a first timer count value with a first timer capture register when a
first PPS signal is received;

capturing a second timer count value with a second timer capture register
when a second PPS signal is received;

generating a consensus timer count value based upon the first captured timer
count value and the second captured timer count value;

generating a reload value based upon the consensus timer count value; and
generating an interrupt signal based upon the reload value.

6. A method for coordinating the activities of one or computers, comprising:

generating a local PPS signal with a local PPS signal generator;

capturing a timer count value with a timer capture register when the local PPS
signal is received;

generating a reload value based upon the captured timer count value; and
generating an interrupt signal based upon the reload value.